

AMENDMENTS TO THE CLAIMS

Please cancel Claims 8-13 and 21-24.

LISTING OF CLAIMS

1. (Previously Presented) A method for beam steering, comprising:
measuring received signal characteristics of the beam;
providing feedback based on the signal characteristics; and
adapting the beam based on the feedback information,
wherein the feedback includes relative strength information regarding a first signal with respect to a second signal.

2. (Original) The method of Claim 1, further comprising using a one-bit punctured on a reverse link channel as feedback to indicate quality of a current signal compared to a previous signal.

3. (Canceled)

4. (Original) The method of Claim 1, further comprising transmitting the number of multipaths as part of the feedback information.

5. (Original) The method of Claim 1, further comprising transmitting the feedback information on a pre-determined schedule.

6. (Original) The method of Claim 1, further comprising transmitting the feedback information when requested.

7. (Original) The method of Claim 1, further comprising steering the beam to ensure a strong signal strength.

8. – 13. (Cancelled)

14. (Previously Presented) A method of determining a beam transmission path comprising:

transmitting a beam sweep through a sector;

determining signal conditions for the beam throughout the sweep; and

providing feedback based on the signal conditions indicating a preferred transmission path,

wherein the feedback includes relative strength information regarding a first signal with respect to a second signal.

15. (Original) The method of Claim 14, further comprising correlating the feedback with a sweep schedule.

16. (Original) The method of Claim 14, wherein the feedback includes a relative strength indicator; and further comprising comparing the relative strength indicator of the signal throughout the beam sweep.

17. (Original) The method of Claim 14, wherein the feedback comprises a single bit, wherein the single bit indicates whether an earliest received signal is the strongest.

18. (Original) The method of Claim 14, wherein the feedback comprises a single bit which indicates a quality of a current signal compared to a previous signal.

19. (Original) The method of Claim 14, further comprising transmitting a plurality of beam sweeps, wherein a first of the plurality of beam sweeps is for demodulation.

20. (Original) The method of Claim 14, further comprising comparing a relative difference between feedback results to determine a preferred transmission path.

21. – 24. (Cancelled)

25. (Previously Presented) A wireless communication system comprising:
a base station which transmits a signal; and
one or more mobile stations which receive the transmitted signal and measures one or more characteristics of the received signal and provide feedback based on the one or more signal characteristics, wherein the base station adapts the beam based on the feedback,

wherein the feedback includes relative strength information regarding a first signal with respect to a second signal.

26. (Original) The wireless communication system of Claim 25, wherein the feedback is a one-bit punctured on a reverse link channel which indicates a quality of a current signal compared to a previous signal.

27. (Original) The wireless communication system of Claim 25, wherein the feedback is a one-bit punctured on a reverse link channel which indicates whether an earliest received signal is the strongest.

28. (Canceled)

29. (Original) The wireless communication system of Claim 25, wherein a number of multipaths is provided as part of the feedback information.

30. (Original) The wireless communication system of Claim 25, wherein the feedback information is transmitted on a pre-determined schedule.

31. (Original) The wireless communication system of Claim 25, wherein the feedback information is transmitted when requested.

32. (Original) The wireless communication system of Claim 25, wherein the base station steers the beam to ensure a strong signal strength.